

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims

1. (Currently amended) A composition comprising a protein in crystalline form wherein ~~at least a portion of the protein has at least 90% identity with~~ consists of SEQ. ID No. ~~4~~ 3.

2-3. (Cancelled)

4. (Currently amended) A composition according to claim 1 wherein the protein crystal diffracts X-rays for a determination of structure coordinates to a resolution ~~greater than~~ having a value that is less than or equal to 3.0 Angstroms.

5. (Original) A composition according to claim 1 wherein the protein crystal has a crystal lattice in a P4₁22 space group.

6. (Original) A composition according to claim 1 wherein the protein crystal has a crystal lattice having unit cell dimensions, +/- 5%, of a=b= 85.159Å and c=152.18Å.

7-8. (Cancelled)

9. (Currently amended) A method for forming a crystal of a protein comprising:

forming a crystallization volume comprising a precipitant solution and a protein ~~wherein at least a portion of the protein has at least 90% identity with~~ that consists of SEQ. ID No. ~~4~~ 3; and

storing the crystallization volume under conditions suitable for ~~crystal~~ formation of ~~the a protein crystal~~.

10-11. (Cancelled)

12. (Currently amended) A method according to claim 9 wherein ~~the~~ a protein crystal is formed that diffracts X-rays for a determination of structure coordinates to a resolution ~~greater than~~ having a value that is less than or equal to 3.0 Angstroms.

13. (Currently amended) A method according to claim 9 wherein ~~the~~ a protein crystal is formed that has a crystal lattice in a P4₁22 space group.

14. (Currently amended) A method according to claim 9 wherein ~~the~~ a protein crystal is formed that has a crystal lattice having unit cell dimensions, +/- 5%, of a=b= 85.159Å and c=152.18Å.

15. (Currently amended) A method according to claim 9, wherein a protein crystal is formed, the method further comprising diffracting the protein crystal to produce a diffraction pattern and solving the structure of the protein from the diffraction pattern.

16-17. (Cancelled)

18. (Currently amended) A composition comprising ~~an isolated~~ a protein consisting of SEQ. ID No. 3.

19-26. (Cancelled)

27. (New) The method according to claim 15 further comprising:
performing rational drug design using the solved structure; and
identifying an entity that associates with the protein.

28. (New) The method according to claim 27 further comprising selecting one or more entities based on the rational drug design and contacting the selected entities with the protein.

29. (New) The method according to claim 28 further comprising measuring an activity of the protein when contacted with the one or more entities.